

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-15. (Cancelled)

16. (New) A sensor comprising:

light sources situated in the form of a two-dimensional matrix for generating light beams emitted in various directions;

means for receiving light beams reflected by objects; and

means for evaluating the received light beams according to direction and transmit time in the sense of a three-dimensional imaging of the objects.

17. (New) The sensor according to claim 16, wherein the light sources are at different distances from each other.

18. (New) The sensor according to claim 16, wherein the light sources are situated on column-shaped subassemblies.

19. (New) The sensor according to claim 16, wherein the light sources are mounted as individual components on a printed circuit board.

20. (New) The sensor according to claim 16, wherein the individual light sources are staggered in zigzag fashion, in each case within one column.

21. (New) The sensor according to claim 16, wherein the light sources are controllable independently of one another.

22. (New) The sensor according to claim 16, wherein the light sources include light-emitting diodes.

23. (New) The sensor according to claim 16, wherein the light sources include laser diodes.

24. (New) The sensor according to claim 16, further comprising a collective lens situated in front of each light source.

25. (New) The sensor according to claim 16, further comprising a common collective lens.

26. (New) The sensor according to claim 16, further comprising optical waveguides for shaping the light beams of the individual light sources.

27. (New) The sensor according to claim 16, wherein the light beams emitted by the individual light sources have elliptical cross-sections.

28. (New) The sensor according to claim 16, wherein the means for receiving includes an optical receiver having a collective lens and a light-sensitive area for receiving the beams reflected by the objects.

29. (New) The sensor according to claim 28, wherein the light-sensitive area includes an optoelectric receiver.

30. (New) The sensor according to claim 28, wherein the light-sensitive area includes optoelectric receivers situated in a matrix configuration.